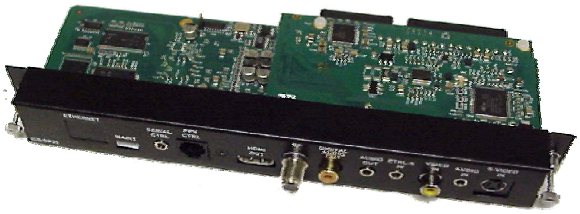
ICS-SP30

User Guide



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Introduction

The ICS-SP30 is a professional tri-band tuner providing 8VSB, QAM and NTSC tuner function for internal connection to a line of Sony Professional LCD and Plasma displays. The ICS-SP30 includes support for Pro:Idiom™ decoding on lodging systems supporting this encryption technology.

This document outlines the installation, set up and operation of the ICS-SP30. For questions or to check for updated information on this product, please check www.sony.com/support for more information.

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Supplied Accessories

(Images not to scale)

ICS-SP30 Card

HDMI Cable

Card Adapter

Notes:

Compatible Displays
The ICS-SP30 card is compatible with the following Sony Displays:

KLH-W26
KLH-W32
FWD-40LX1
FWD-32LX2
FWD-40LX2
FWD-50PX2
FWD-42PX2

DVI-HDCP Displays
Some Sony Displays require an HDMI to DVI adapter and audio adapter cable for audio (not supplied) and may require a longer HDMI cable than the 12” cable supplied (PX2 models). These include:

FWD-40LX1 FWD-42PX2 FWD-50PX2 FWD-50PX3

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The ICS-SP30 is designed to function with Sony Professional LCD and Plasma displays which may differ in input types and connection configuration. For questions on connections and specifications on specific Sony displays, consult www.sony.com/support.

Installing Card

Step 1 – Remove power cord from the display to ensure power is off. Remove any populated cards in slot 1 and/or slot 2 (if any). There may be a cover over slot 2. Remove the middle rail guide by removing screw between two card slots

Step 2 – If inserting the ICS-SP30 into a KLH display, skip to step 3. For other displays, attach card extender to left side of the ICS-SP30 and tighten. The finished card should look like image at right

Step 3 – Carefully insert the ICS-SP30 card into the card slot. Do not allow components to come into contact with edges of the card slot. Note: S-Video input should be on the top edge of the card as it is inserted.
DO NOT FORCE CARD
When card is completely inserted, it should fit into the two internal connectors, and then the thumb screws can be tightened.

Step 4 – Attach the HDMI cable to HDMI Out on the ICS-SP30
(Note: there is a required external HDMI cable from the ICS-SP30 to the digital input of the display – This is based upon strict requirements for HD tuners in hospitality)

Step 5 – Attach COAX cable to RF input

Step 6 – Attach RJ12 data cable from PPV Provider box to the PPV CNTL input

Step 7 – Plug power into the Sony Display and using the PPV Provider remote, press Power button

The unit is now configured for hospitality mode with the PPV Provider.

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Stand Alone vs. Lodging Mode

The ICS-SP30 is designed to operate in a Pay-Per-View environment, connected to a lodging system that uses protocols and commands to control the display and tuner. The ICS-SP30 may also be able to operate in a Stand Alone mode to provide basic TV tuning for the Sony Display.

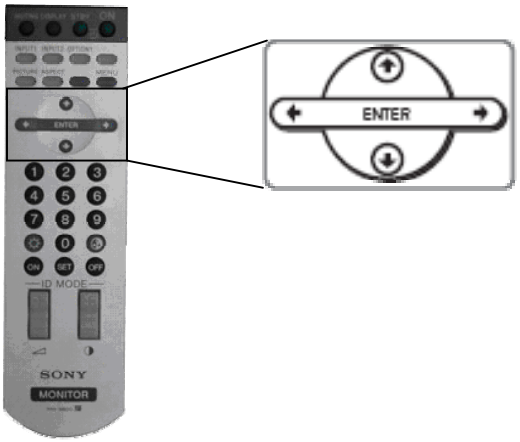
When the ICS-SP30 is connected to a compatible lodging system, the ICS-SP30 will automatically recognize the lodging system and respond to the PPV commander. In Lodging Mode, the control buttons and IR commands from the Sony remote will not control the display and tuner.

Supported Remote Controls

The ICS-SP30 is designed to function with the remote control that shipped with the Sony display. Because of differences in the display remotes, in which not all remotes have the same available buttons, some remotes may have limited functionality with the display remote. In such case, a standard Sony TV remote or universal remote (such as Sony RM-EZ2) using Sony IR commands can control the ICS-SP30 in Stand-Alone Mode.

Navigating Menus

The menus in the operation of the ICS-SP30 have been designed to use the Left, Right, Up, Down buttons for most functions. To return to a previous menu, pressing the Left button



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Stand-Alone Set Up Menu

The ICS-SP30 set up process includes a sequence of numbers pressed on the Sony remote to access the set up menus. With the display and ICS-SP30 powered on press the following in sequence.
(note: when pressing buttons, press the buttons to be sure the system receives the code.

Setup Menu code: Up Right Left Mute

If a button is pressed in error, press the Down arrow to clear the code entries. In the lodging environment a different remote or function may be enabled to provide additional security.

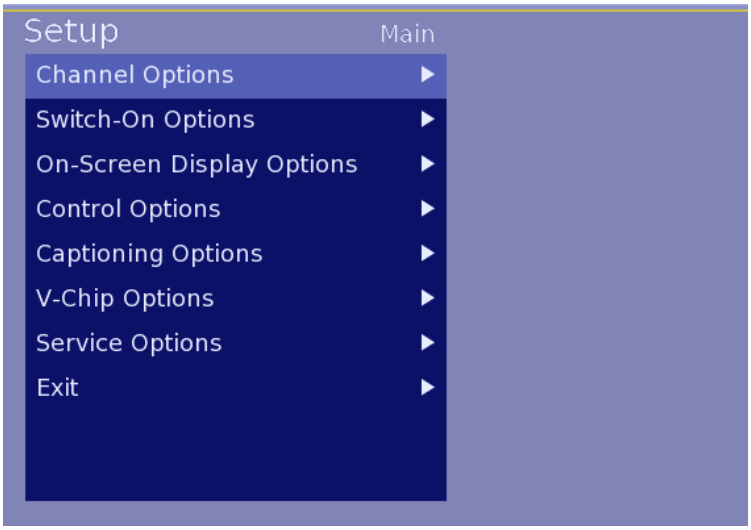

Image 1 – Setup Menu

Navigating Menus

Most menus and submenus are navigated using the UP / DOWN / RIGHT / LEFT arrows on the remote control. To enter a menu, press the RIGHT button.

To enter an item in a sub menu, the ENTER button can be pressed or the LEFT arrow button can be pressed to exit a entry field and store the setting.

Some sub-menus require specific characters and onscreen instructions will be provided in such cases.

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Channel Options

The ICS-SP30 supports analog and digital channels from cable or over-the-air sources.

Note:
Air – To receive over-the-air channels, an antenna and additional equipment may be required
Cable – Digital cable channels may not be accessible if conditional access or subscriptions are required

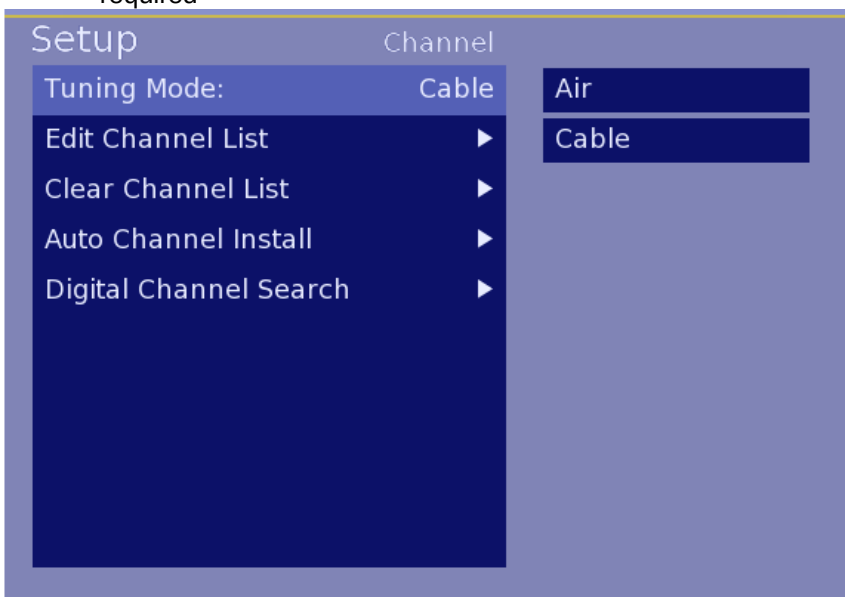

Image 2 – Channel Options Menu

Tuning Mode
Option is either Air (Over-The-Air) or Cable. This setting can be changed using RIGHT arrow button to enter the setting and using UP or DOWN select either Air or Cable. To save the setting, press the LEFT arrow button.

Edit Channel List
A submenu with functions to add, delete and manage information regarding channels

Clear Channel List
Used to delete the stored channel list programming

Auto Channel Install
Used to scan and install channels

Digital Channel Search
Used to search for digital channels available. Note, these channels will not be automatically entered into the channel lineup. Digital channels require entry management on the Edit Channel List menu.

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Edit Channel List Submenu
This submenu allows for manual add, delete and management functions of channels.

Image 3 – Edit Channel Submenu

Channel
Using remote, enter the number of the channel to manage, or to setup the Startup Channel, select Startup Channel

The Startup Channel is a feature to have a specific channel tuned as the default whenever the TV turns on. The Startup Channel may also be an AV Input in the case where an external media device is used for the PPV system.

A Startup Channel does not need to be a channel that is in the channel ring.

Include in List
This function allows a channel to be removed from the Channel Ring (available channels) without losing stored data. Select Yes to include / No to exclude

Type
Selection options include:
Analog – Analog NTSC Channels from 1-127

Digital – Digital Channels – Select Digital to remap the digital QAM or 8VSB channel to an analog channel number

A/V Input – Provide access to TV A/V Inputs through remapping the input to an analog channel number

(Note: A/V Input remapping may not function with all PPV providers. For details on using A/V Inputs while in Lodging Mode, consult the section on A/V Input mapping)

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Note:
Depending on the selection type, the menu options will change for the Channel List menu

Analog Type Selection

The options for an analog channel include a customized Label for the channel, Addition of a thumbnail logo for the channel and selection of audio/video options for the channel.

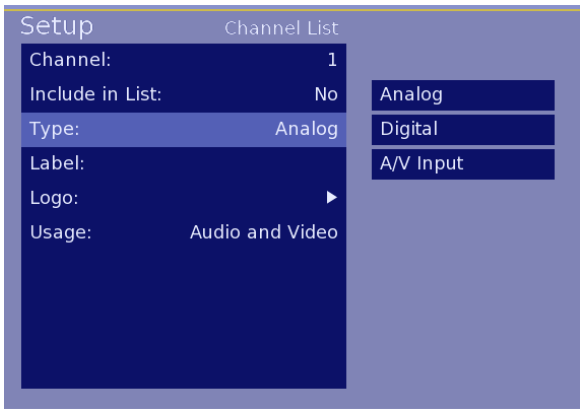

Image 5 – Analog Channel Settings

Digital Type Selection

Browse Digital Channels
Available for scanning through digital channels after they have been scanned using the Digital Channel Search function from the Channel Options Menu.

Note: To browse the digital channels, a standard Sony TV remote, with CH+ / CH- buttons is required. The remotes provided with the FWD and KLH model displays do not include CH+ / CH- buttons and cannot browse the scanned digital channels.

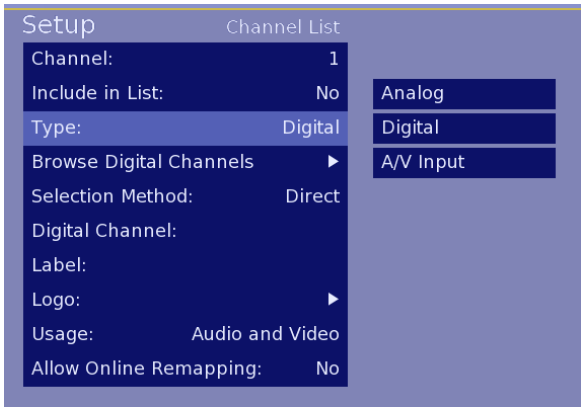

Image 6 – Digital Channel Options

Selection Method
Allows choice of Virtual or Direct Selection

Digital Channel
This section provides for the entry of the Channel Primary digits and Sub (Program) digits for the known digital channel

Label
Entry using UP / DOWN arrow buttons to enter a text label for the channel

(Note: PPV systems may not use the label setting in the ICS-SP30 and instead use own label method. Confirm with your PPV provider if label information will be used)

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Logo
Selectable menu of graphical logos for adding a visual thumbnail for many popular TV channels

(Note: PPV systems may not use the logo setting in the ICS-SP30 and instead use own logo method. Confirm with your PPV provider if label information will be used)

Image 7 – Logo Options

Usage
Selection of Audio and Video (default), Audio only for music channels/inputs or video only for video only usage.

Allow Online Remapping
Note: Not all PPV systems allow Online remapping. Please consult Enseo at 972-234-2513 to ensure your system is supported.

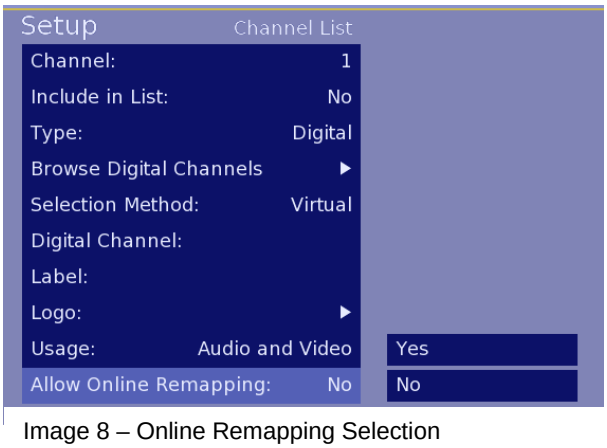

Image 8 – Online Remapping Selection

NOTE: Lodging System Requirements for Channel Re-mapping
(1) The Lodging System MUST NOT explicitly 'delete' the channel
(2) The Lodging System MUST NOT add 'installation data' for the channel
(3) The Lodging System MUST use an 'Analog Channel Tune' command to access the re-mapped channel.

This setting is used for Lodging Mode to allow remapping of a Digital Channel or AV Input to exist in a controlled hospitality system. Select **YES** to have the settings for the channel specified maintain the mapped information.

Note: Analog tune commands are the only tune commands that can be re-mapped. If your PPV provider does not use analog tune commands they will need to implement them before this function will work.

Note: Before this function is used the PPV provider must be consulted due to differences in command structures between PPV providers, the necessity to include the re-mapped channel in the ring, and other proprietary concerns.

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Switch-On Options Menu

This menu provides options for setting up default settings for when the display first turns on. These settings are particularly useful in a lodging environment to be sure the display starts on the Startup Channel and to pre-define volume, screen format and other settings.

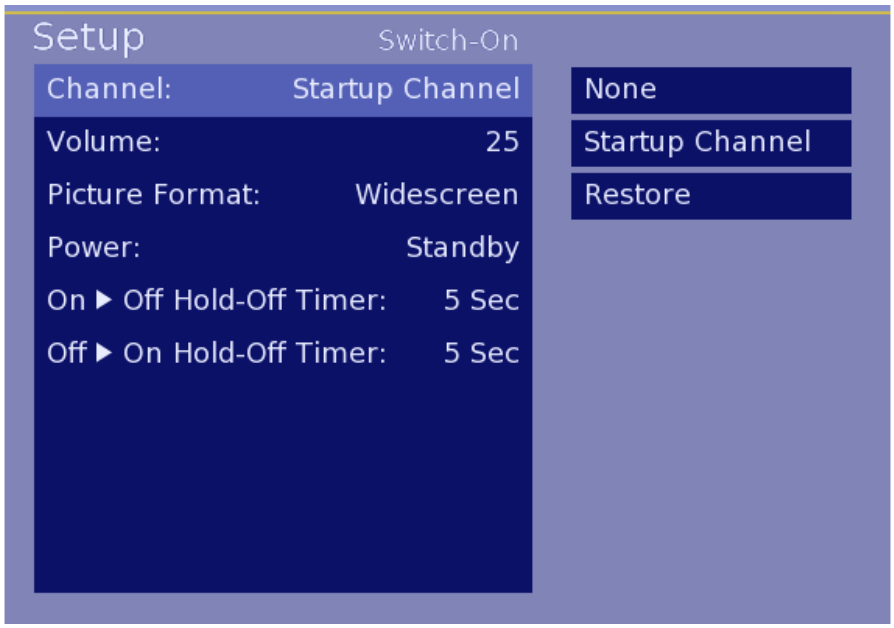

Image 9 – Switch-On Options Menu

Channel
Allows for the configuration of a default channel:
None – Allows PPV system to define startup channel
Startup Channel – Uses the information configured for Startup Channel on Edit Channel Submenu. This may include an A/V Input

Restore – Returns the TV to the last channel tuned prior to turning off by user

Volume
Set the numeric value from 0 to 99 that you would like to be used as the default volume level for the display.

Picture Format
Select between different formats for the screen and content presented. Options include:

Native
This setting will show the aspect ratio of the source material. 4:3 NSTC images will be shown with side bars

Widescreen
This setting will fill the screen with the image by stretching the image (if necessary) to create a 16:9 image.

Power
Select the behavior for the ICS-SP30 when AC power is lost and restored. Settings include:

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Standby – Return to a standby mode if power is lost or on first plug in
Force On – Turn on TV and Tuner if power is lost or on first plug in
(Note: Force On mode may cause TV to turn on in lodging environment following power outage)

ON → OFF Hold Off Timer
This setting allows for a selectable period of time where the ICS-SP30 will ignore additional IR button presses during a power off process. This feature is used when guests may have situations where extra IR presses are causing undesirable interaction.

OFF → ON
This setting allows for a selectable period of time where the ICS-SP30 will ignore additional IR button presses during a power on process.

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On-Screen Display Options

The On-Screen Display Options settings provide for customization and set up of OSD options.

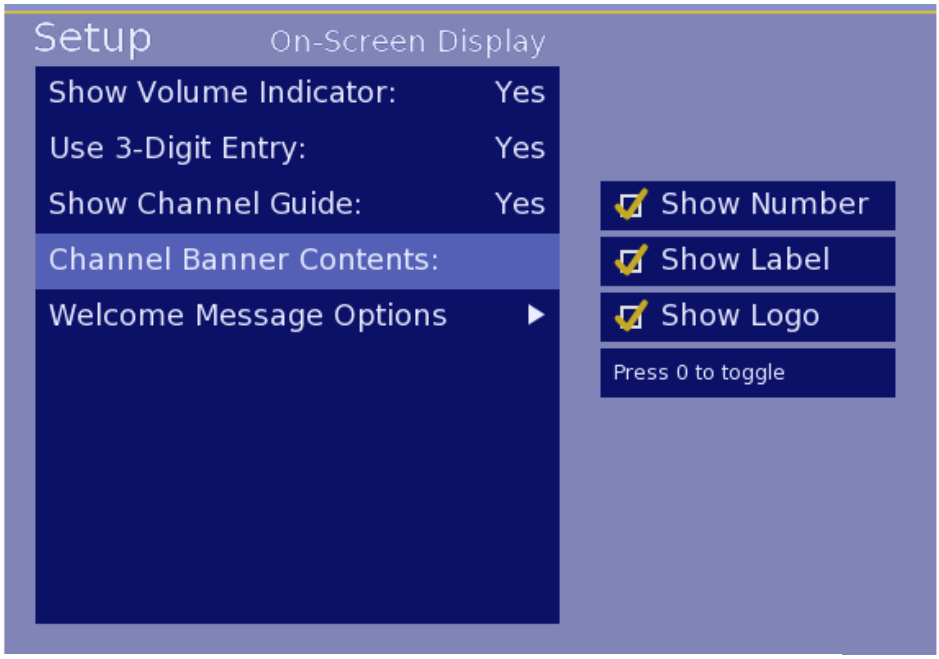

Image 10 – On-Screen Display Options Menu

Show Volume Indicator
This menu item is a Yes/No selection for whether a visual representation on the volume adjustment should be shown on the screen when the user uses the volume up or down on the remote.

Use 3-Digit Entry
This menu item is a Yes/No selection for support of 3-digit numbers for channels over 99 and digital channels that may use a sub-digit

Show Channel Guide
This menu item is a Yes/No selection for whether a channel guide is active for the user to see the available channels on the display.

Channel Guide content is generated by the analog channel numbers and text labels for each channel.

Channel Banner Contents
This menu item allows the selection of the content available on the display banner. Selections include:

Show number: The channel number
Show Label: The text label for a channel
Show Logo: The select graphic if any

Use the 0 button when selecting or deselecting an option on this sub-menu.

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Welcome Message Options
This menu item provides for a way to have a welcome message shown on the display.

Show Message (Yes/No)
Line 1: First line of text
Line 2: Second line of text
Note: If show message is yes
And there is nothing in line one
Or two, the welcome message
Will display “Acquiring Channel”.

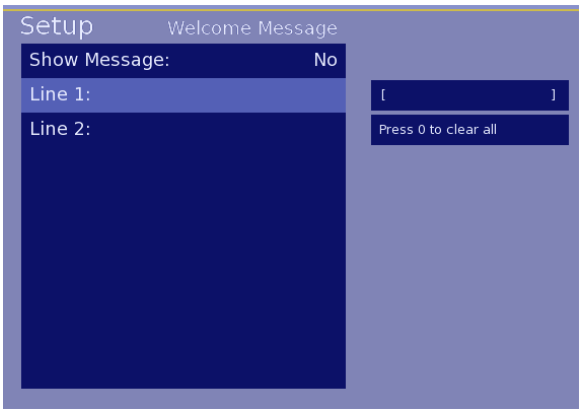

Image 11 – Welcome Message Submenu

Control Options

This setup section provides system level settings for the tuner card.

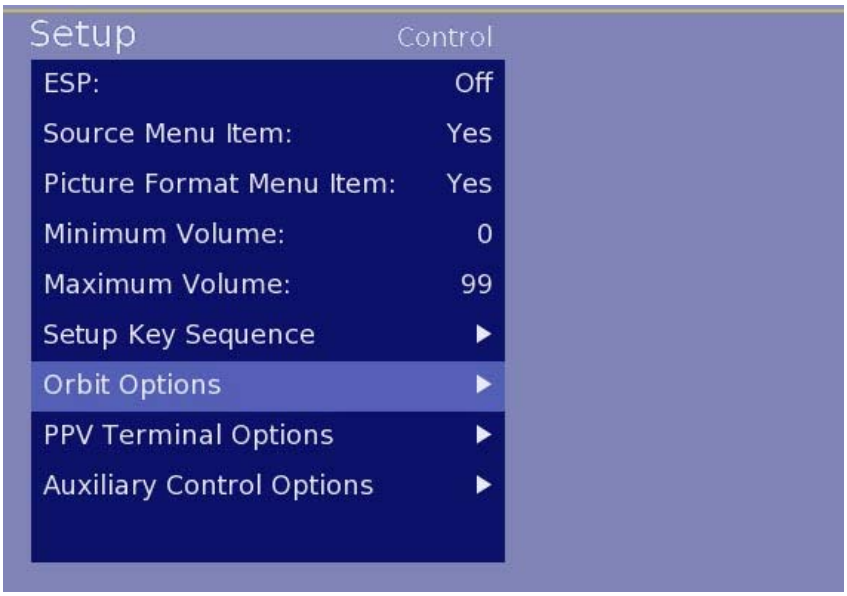

Image 12 – Control Options Menu

ESP (Energy Savings Protection)
This menu item allow for a setting of a default time off to protect against a TV being left on when a guest leaves a room without turning off the TV. The mode can be set On or Off, and the hours of inactivity until it turns itself off can be 1 to 9 hours.

Source Menu Item
This menu item is a Yes/No selection and allows control over whether a user, through the user menu, has access to input selection.

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Picture Format Menu Item
This menu item is a Yes/No selection and allows control over whether a user, through the user menu, has access to change the Image Format (widescreen or native).

Minimum Volume
Set the available minimum volume from 0 to 99

Maximum Volume
Sets the available maximum volume from 0 to 99

Setup Key Sequence
Provides a method for changing the key button sequence used to access set up features. If these are changed, make sure to write down the keys. **Failing to record these would require re-cloning an entire system to restore the set up key sequence.**

A key press sequence of up to eight buttons can be defined. These keys are more than numeric keys and adds to the security for a system.

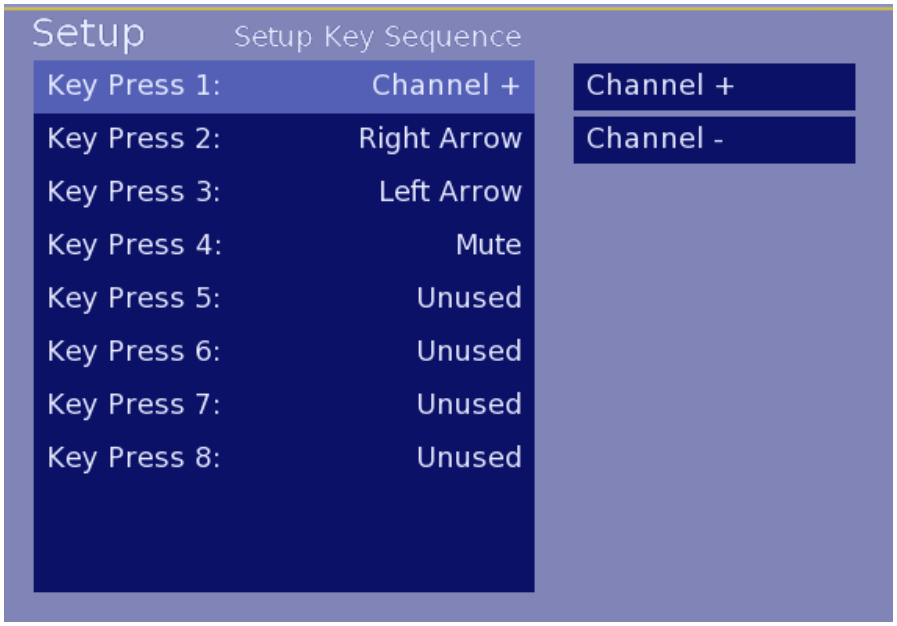

Image 13 – Setup Key Sequence Submenu

Orbit Options
This submenu provides options available on Sony Plasma monitors to allow selection of orbit by channel. Orbit is a feature in the Sony Plasma monitors to reduce the potential for image retention from certain static images.

Sub-menu Options Include

Size – This is the size of the orbit (how large of an area to shift the display image). Options include: Small, Medium and Large

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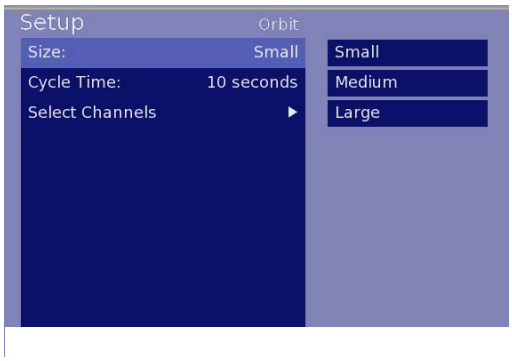

Cycle Time – This is the duration of time to complete a full shift of the image through orbit (includes shifts UP, RIGHT, DOWN, AND LEFT to complete an orbit).

The selection options for Cycle Time are: 10-seconds, 30-seconds, 60-seconds, and 5 minutes.

Note: The shorter the selected cycle time, the more noticeable the orbit function will be to the user/viewer.

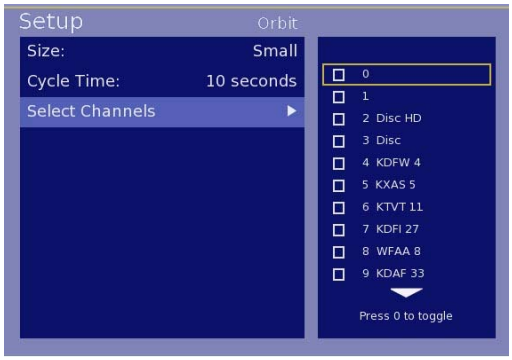

Image 15 – Select Channels

Select Channels – This selection area allows selection/de-selection of specific channels to implement orbit on.

Channels must be setup and made available in the channel ring prior to identifying them for use with the orbit function.

Text labels in this section are available if the label information is entered in the edit channel (Page 8).

PPV Terminal Options
This submenu provides options for specific hospitality configuration requirements, including:

Terminal Controls Volume
Default is YES for the lodging terminal device to control the volume. In some specific installations, this may need to be set to NO for the ICS-SP30 to control the volume adjustment independent of the lodging system.

Terminal Controls Sleep
Default is YES for the lodging terminal device to control the command settings for the Sleep Mode. In some specific installations, this may need to be set to NO for the ICS-SP30 to directly manage the Sleep Mode independent of the lodging system.

Terminal Controls CC
Default is YES for the lodging terminal device to control the settings for Closed Captioning. In some specific installations, this may need to be set to NO for the ICS-SP30 to control directly manage the Closed Captioning functions independent of the lodging system.

Auxiliary Control Options
This submenu provides setting for Baud Rate of communications over the service port. Baud rate of the serial communications port can be adjusted with fixed values from 1200 to 115200.

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Captioning Setup

This submenu is used to control the default values for the Closed Captioning function on the tuner.

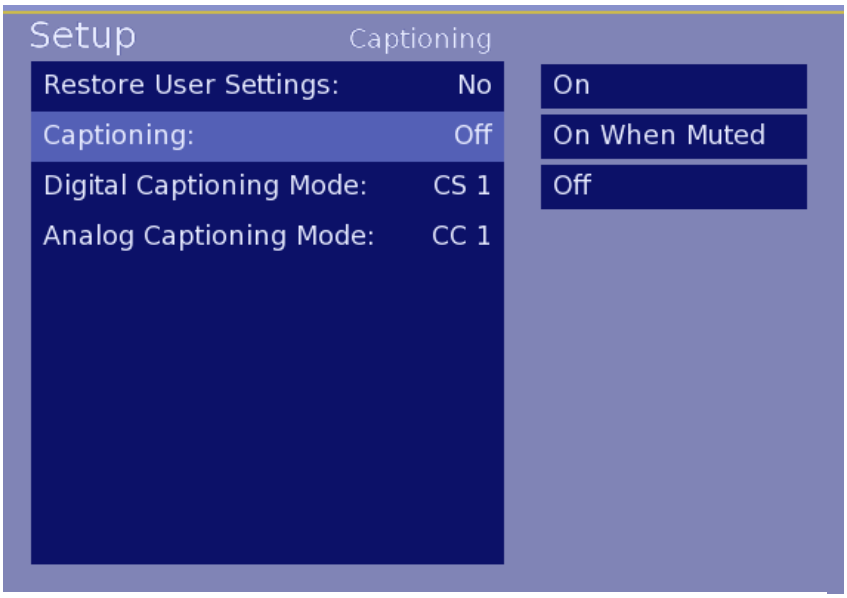

Image 16 – Captioning Options Menu

Restore User Setting
This setting allows for the selection of allowing user settings for CC to be stored between power cycles, or to always use a default setting on power on. Select NO to override the previous user CC setting on power on (using the default settings), or select YES to allow the previous user setting to be used on the next power on.

Captioning
This setting allows three options for Closed Captioning at the default power on status.
ON – Closed Captioning will be set to ON at power on
ON WHEN MUTED – This setting will have the ICS-SP30 display Closed Captioning content when the user Mutes volume.

OFF – This setting has the Closed Captioning set to OFF as the default

Digital Captioning Mode
This setting allows the selection of the CC mode to be used for the Digital Channels

Analog Captioning Mode
This setting allows the selection of the CC mode to be used for the Analog Channels

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V-Chip Setup

This submenu sets up default options for the V-Chip settings.

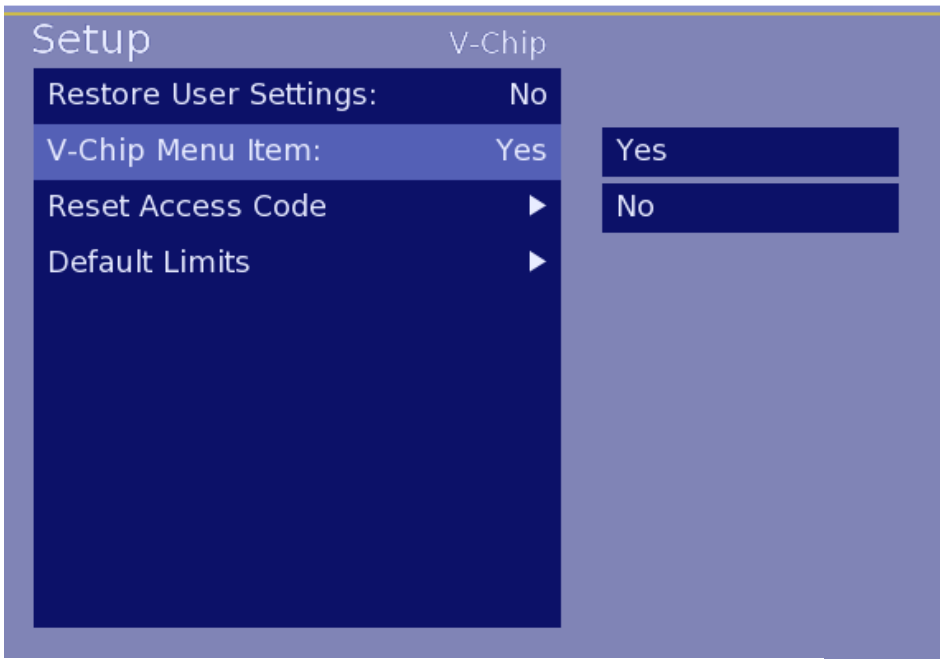

Image 17 – V-Chip Options Menu

Restore User Setting
This setting allows for the selection of allowing user settings for V-Chip to be stored between power cycles, or to always use a default setting on power on. Select NO to override the previous user V-Chip setting on power on, or select YES to allow the previous user setting to be used on the next power on.

V-Chip Menu Item
This setting controls whether the user has access to the V-Chip selection and settings. Selecting YES will allow the V-Chip menu item to appear on the user menu. Selecting NO will cause the V-Chip settings to no be user accessible and they will not appear on the user menu.

Reset Access Code
This is an open setting to allow for the reset of the code. In set up mode, this code can be overwritten without knowing the previous code. This is useful incase the previous user forgot the code. The code will be reset to the default code of 0000

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Default Limits
This section allow for various default values to be set for the tuner.

Image 18 – V-Chip Default Limit Submenu

Enable V-Chip
This setting is a YES/NO selection. By setting YES, the default V-Chip settings will be active when the ICS-SP30 starts up. Selecting NO disables the V-Chip settings.

Select TV Ratings
This matrix allows for allowing or restricting various settings, including the TV industry Parental Guide ratings, and new specific ratings:

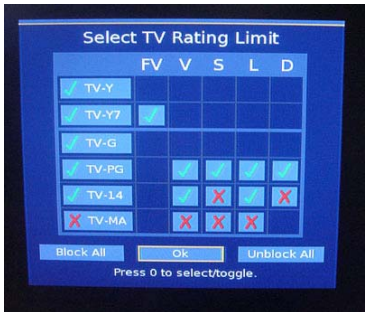

Image 19 – V-Chip TV Ratings

TV-Y = All Children TV-Y7 = Directed to Older Children
TV-G = General Audience TV-PG = Parental Guidance Suggested
TV-14 = Parents Strongly Cautioned TV-MA = Mutual Audience Only

FV = Fantasy Violence (cartoons)
V = Violence
S = Sexual Situations
L = Language
D = Suggestive Dialog

Use the arrow keys to highlight a box in the matrix and then use the 0 button on the remote is used to toggle between selections. When finished, move to the OK box and press 0 to save settings and exit.

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Image 20 – V-Chip Movie Ratings

Select Movie Ratings

This menu allows for the authorization or exclusion of content based on the
Movie Rating system.

G = Children and Family

PG = Parental Guidance Suggested

PG-13 = Parental Guidance – Special Guidance to children under 13

R = Restricted. No one under 17 without an adult

NC-17 = No children under 17

X = Adult content / Adults only

Not Rated = Some films are not rated and other content is beyond NC-17 and withdrawn before rating..

Use the arrow keys to highlight a box in the matrix and then use the 0 button on the remote is used to toggle between selections. When finished, move to the OK box and press 0 to save settings and exit.

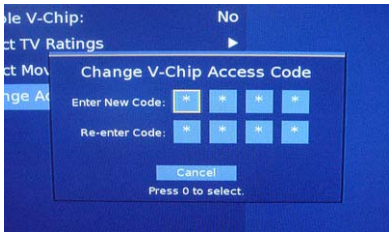

Image 21 – V-Chip Reset Function

Change Access Code

The V-Chip Access Code can be set through the set up process using this function.

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Service Menu

The HD tuner is an advanced media device with the ability of communicating through an RF network to maintain updated firmware and control. The features outlined below are advanced functions designed for an integrated RF system.

This menu area is used to set up parameters for servicing the tuner or performing service functions.

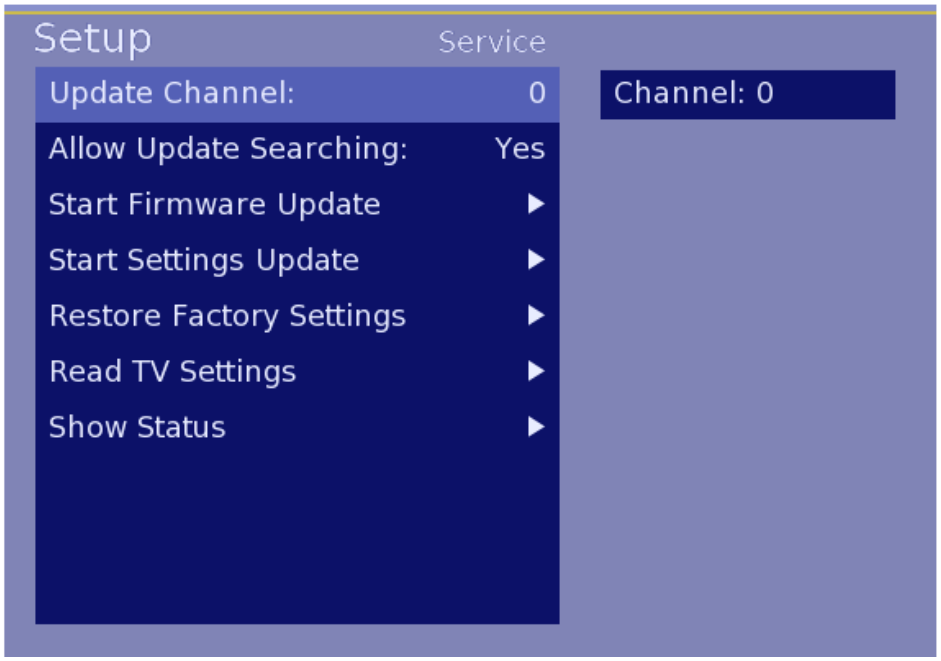

Image 22 – Service Options Menu

Update Channel
This feature is used for setting a channel to perform firmware updates. Using the numeric keys on the remote, enter the channel that has been identified by your system administrator for firmware updates.

Allow Update Searching
This YES / NO selection either allows or prohibits the display from searching for an update channel for firmware updates. Having this selected as YES will allow updates when the Update Channel needs to be changed for some reason, and eliminates the need for setting up the update channel at installation.

Start Firmware Update
To manually initiate a firmware update, press the Right arrow button on the remote from this menu line. **NOTE: By selecting this item, the tuner will immediately begin the firmware update process and reboot when complete.**

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Note:
During a firmware update, the Display MUST NOT be unplugged or turned off. Doing so while firmware is being downloaded and upgraded on the device could damage the unit and make it unusable.

If the firmware update was initiated by mistake, it will time out after 3 to 5 minutes.

Start Settings Update
To manually initiate a Clone Setting update, press the Right arrow button on the remote from this menu line. **NOTE: By selecting this item, the tuner will immediately begin the process of downloading and storing settings stored on the Enseo Galileo System Server.**

Restore Factory Settings
This function allows the tuner to be reset to the factory settings. Changes, channel lineup programming and other setup customizations will be lost and the tuner will return to factory settings.

Read TV Settings
This function initiates a Read command in the ICS-SP30 to read the settings values in the TV. This is used to collect Clone data for a System Clone through the Enseo Galileo System Server.

Show Status
This menu item will activate a status window showing important information about the display, tuner, firmware versions and other diagnostic data.

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USER MENU

User menus are accessed using either the lodging remote provided in the hotel room, or the remote supplied with the display. These menus are available to users to enjoy the features of the tuner and display. Only a few control functions are available through the user menus.

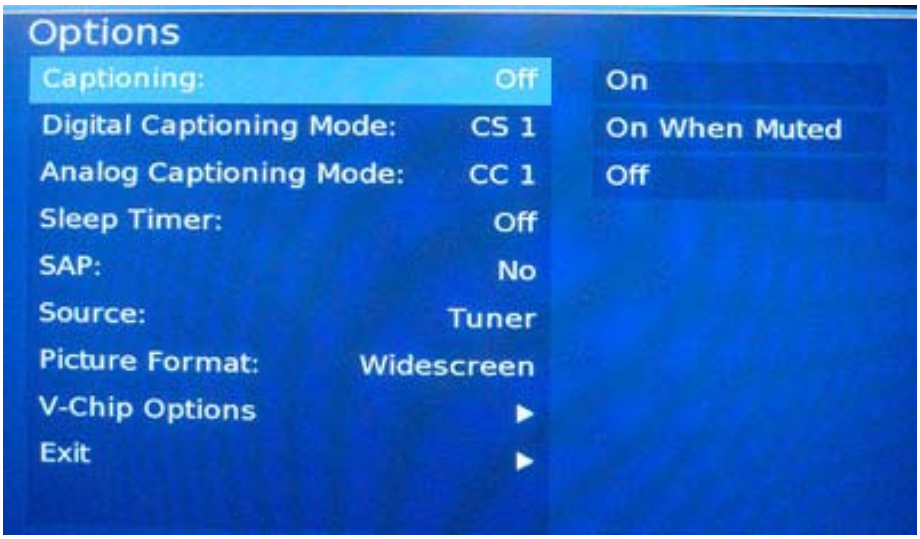

Image 23 – User Menu

Captioning
This feature allows the selection of OFF / ON and On When Muted, Using the arrow buttons highlight the desired setting and then press the Left Arrow button to save and exit the field.

Digital Captioning Mode
This allows the user to select the format of the CC signal for digital channels

Analog Captioning Mode
This allows the user to select the format of the CC signal for analog channels

Sleep Timer
The sleep timer function allows the user to set the TV to turn off automatically after a selected number of minutes.

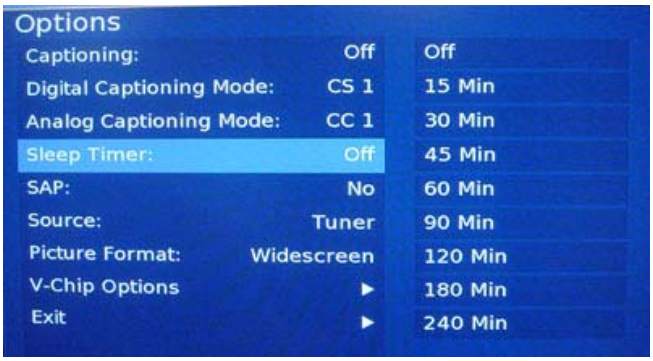

Image 24 – Sleep Timer

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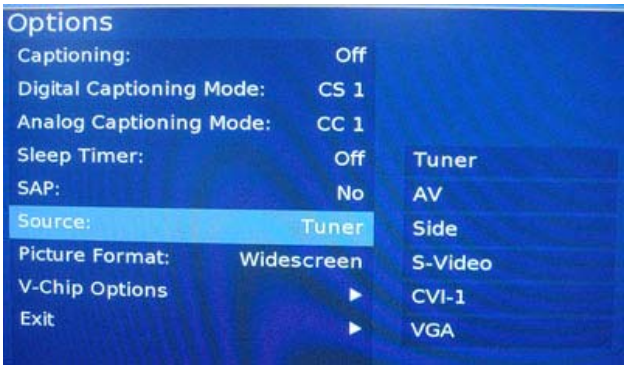
Secondary Audio Programming (SAP)
This menu item allows the user the option of turning on SAP audio if available.

Source
If made user-accessible from the Setup Menu, the user will have the ability to select available inputs on the display for use of attached media devices. If this feature is not enabled on the Setup menu, this item will not be visible on the User Menu.

Note: The available inputs will be based on the model of display and video expansion boards installed (if any).



Picture Format
If made user-accessible from the Setup Menu, the user will have the ability to adjust the aspect ratio of content presented on the display. If this feature is not enabled on the Setup menu, this item will not be visible on the User Menu.

Note: On Plasma monitors, user access to Picture Format will be limited to prevent the potential for image retention.

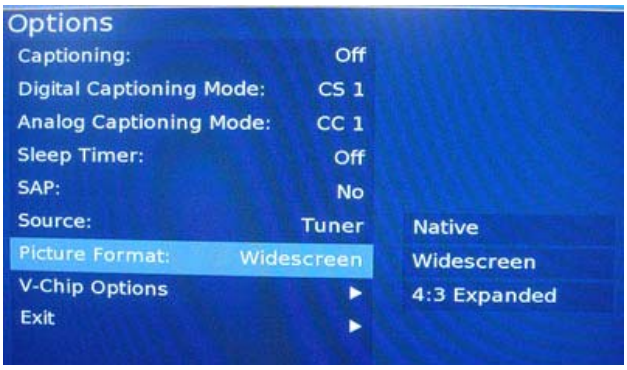


Image 25 – Picture Format

V-Chip Options
If made user-accessible from the Setup Menu, the user will have the ability to set and control V-Chip settings to restrict content from being shown on the tuner. If this feature is not enabled on the Setup menu, this item will not be visible on the User Menu.

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OPERATION

The HD tuner is an advanced HDTV and NTSC TV tuner with features that support lodging systems and stand-alone operation.

Lodging Mode
The tuner will automatically function in a lodging mode when attached to a compatible PPV system. The tuner will communicate with lodging system, identify the system and the necessary communication protocols and immediately send commands to the display necessary to function with the attached PPV system.

Stand Alone
To control the tuner in stand-alone mode, the tuner must not be connected to PPV system. If the display is connected to a PPV system, first disconnect the RJ12 communication cable between the tuner and the PPV control box. (RJ12 is connected to CONTROL - PPV).

In Stand Alone mode, the tuner will respond to the Sony remote and other compatible PPV system remotes. To access the User Menu in stand alone mode, press the MENU button on the remote.

Note on LX2 remote The supplied remote controller for the Sony FWD-32LX2F and FWD-40LX2F does not have a Channel Up or Channel Down buttons. To change channels on the tuner, you must use the UP Arrow or Down Arrow on this remote, or use any Sony TV remote (such as the Sony RM-EZ2) or universal remote supporting the Sony TV IR commands.

Controlling the Sony Display
The tuner and displays are designed to use the same remote control shipped with the display, while minimize conflicting commands that could cause the display and tuner to both react.

When the tuner is connected to the display the Sony display will not show the Sony Menu. All commands to control the display will be controlled by the tuner.

If you need to access the Sony display menu, press in sequence, the following remote buttons:

DISPLAY RIGHT LEFT MUTE

The Sony display will now respond to the Sony remote for menu functions. To exit this mode, perform the above key sequence again.

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TROUBLESHOOTING

The Display and/or Tuner Do Not Respond to Remote
Possible Remedies
- Check that the display has power attached
- Check that the Communication Cable is correctly attached to the PPV control box.

My Display Does Not Respond to The Remote or Button on the Display
Possible Remedies
- It is possible that the Communication Cable became disconnected during operation and the display must be reset
- Review the Section “Controlling the Sony Display” on Page 18 for further details.

FAQ

Q: Which hospitality systems is the ICS-SP30 Compatible With?
A: The ICS-SP30 is designed to be compatible with most major PPV Hospitality Systems, including:
- LodgeNet (Tested and Certified Compatible)
- OnCommand (Tested and Certified Compatible)
- SeaChange (Tested and Compatible)
- More…

Most lodging system operate on a similar standard of protocol commands for operation. If a PPV provider is not listed above, it may be possible for the ICS-SP30 to work with this provider.

Q: Does the tuner support LG Pro:Idiom™ decryption technology?
A: Yes - The tuner includes the Pro:Idiom decryption technology for support of HD PPV systems from LodgeNet and OnCommand using Pro:Idiom

Q: What is the warranty on the ICS-SP30 A: The ICS-SP30 has a limited warranty from Sony against material defects for a period of 12 months from purchase date. For more information on the warranty, refer to www.sony.com/support.

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Product Specification

ICS-SP30 Specifications

ITEMS		DETAILS	COMMENTS
Dimensions		L 9.53" x D 3.48" x H 1.18"	
Total Power Consumption		8.3 Watts Typical	Internal power
Tuner	Digital	QAM/8VSB	
	Analog	NTSC	
Decryption		Pro:Idiom	
Inputs	RF Input	One	
	RS232	One	3.5mm mini-jack with special cable
Outputs	HDMI	With HDCP	
	Digital Audio	S/PDIF	
	Analog Audio	One	3.5mm mini-jack with special cable
Standard	Product Safety	Risk Assessment based on IEC60950	Card uses internal power
	EMC	FCC (Class B)	
	Environmental	RoHS	
OSD	English		Co-ordinate Font, Color & Position
Control	Display	Internal	Internal
Ports	PPV	RJ12 Connector	MTI command protocol

FCC Statement & License Acknowledgement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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